

Abstract

The invention relates to an energy supply unit (5) for a measuring device (1)
5 for determining and/or monitoring a physical or chemical, process variable
of a medium. The invention includes that at least one voltage limiting unit
(10) and/or at least one current limiting unit (15) is provided in the energy
supply unit (5), wherein the voltage limiting unit (10) is embodied in such a
manner that arising voltages remain under a value, which leads to an
10 explosion in an explosion-endangered area, and wherein the current
limiting unit (15) is embodied in such a manner that arising currents and/or
heatings associated therewith remain under a value, which leads to an
explosion in an explosion-endangered area.